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| **Kod Rujukan:** |  |

  **(Diisi oleh RMC)**

**BORANG FRGS – A1 (R)**

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|   **JABATAN PENGAJIAN TINGGI** **KEMENTERIAN PENGAJIAN TINGGI** FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS) **APPLICATION FORM** *(****Pindaan 2/2010****)*  *One (1) copy of this form must be submitted to the Institution of Higher Education Excellence Planning Division, Department of Higher Education, Level 6, Block E14, Complex E, Federal Government Administrative Centre,62505 Putrajaya.* *[Incomplete Form will be rejected]* |
| **A** | **TITLE OF PROPOSED RESEARCH:***Tajuk penyelidikan yang dicadangkan :* |
| **B** | **DETAILS OF RESEARCHER** / *MAKLUMAT PENYELIDIK*  |
| **B(i)** | Name of Project Leader: IC / Passport Number:*Nama Ketua Projek:* *No. Kad Pengenalan/ Pasport:*  |
| **B(ii)** |  **Position (Please tick** *( √ )***):***Jawatan (Sila tanda ( √ )*)*:*  **Professor** **Assoc. Prof. / Sen. Lect.** **Lecturer**  *Profesor*  *Prof. Madya / P. Kanan* *Pensyarah*    |
| **B(iii)** | **Faculty /School/Centre/Unit (Please provide full address):***Fakulti /Jabatan /Pusat/Unit (Sila nyatakan alamat penuh):*   |
| **B(iv)** | **Office Telephone No.:** **Handphone No.:***No. Telefon Pejabat: No. Telefon Bimbit:*   |
| **B(v)** |  **E-mail Address:***Alamat e-mel:* |
| **B(vi)** | **Date of first appointment with this University:***Tarikh mula berkhidmat dengan Universiti ini****:*** |
| **B(vii)** | **Type of Service (Please tick** *( √ )***):***Jenis Perkhidmatan (Sila tanda ( √ )):*  **Permanent Contract (State contract expiry date):** *Tetap Kontrak (Nyatakan tarikh tamat kontrak)*: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  |
| **C** | **RESEARCH INFORMATION /** MAKLUMAT PENYELIDIKAN |
| **C(i)** | **Research Area (Please tick** *( √ )):**Bidang Penyelidikan (Sila tanda ( √ )):*  1. **Pure Science** (*Sains Tulen)*

 Chemistry Physic Biology  *(Kimia) (Fizik) (Biologi*)  Biochemistry Materials Science Mathematics and Statistics  *(Biokim*ia) *(Sains Bahan) (Matematik dan Statistik)* **B. Applied Science** (*Sains Gunaan*)   Chemistry Physic Biology  *(Kimia) (Fizik) (Biologi*)   Mathematics and Statistics Computer Science Biotechnology  *(Matematik dan Statistik) (Sains Komputer) (Bioteknologi)* Materials Science   *(Sains Bahan)* **C. Technology and Engineering** (*Teknologi dan Kejuruteraan)*Mechanical & Manufacturing Electrical and Electronic General *(Mekanikal dan Pembuatan) (Elektrikal dan Elektronik) (Awam)*    Material and Polymer Chemical Engineering Information and Communication  *(Bahan dan Polimer)* (*Kejuruteraan Kimia)* Technology  *(Teknologi Komunikasi dan Informasi)*  Energy Transportation (*Tenaga) (Pengangkutan)*  **D. Clinical and Health Sciences***(Sains Kesihatan dan Klinikal)*Basic Medical Sciences Pharmacy Pharmacology *(Sains Perubatan Asas) (Farmasi) (Farmakologi)* Medical Microbiology Parasitology Pathology *(Mikrobiologi Perubatan) (Parasitologi) (Pathologi)*Community Medical Prevention [Clinical Surgical](http://www.google.com.my/search?q=Clinical+surgical&hl=en&client=firefox-a&sa=X&rls=org.mozilla:en-US:official&prmd=v&source=univ&tbs=vid:1&tbo=u&ei=qaL8S9qICcK5rAeg0cHuAQ&oi=video_result_group&ct=title&resnum=4&ved=0CCsQqwQwAw) Clinical Medical *(Perubatan Pencegahan (Klinikal Surgikal) (Klinikal Medikal)*  *Masyarakat)*  [Associate Health Science](http://www.academicinfo.net/online-degrees/associate/health-science) Dental Nursing Science *(Sains Kesihatan Bersekutu) (Pergigian) (Sains Kejururawatan*)  **E.** **Social Sciences** (*Sains Sosial)*Anthropology Psychology Sociology *(Antropologi) (Psikologi) (Sosiologi*)  [Political Science](http://www.unc.edu/depts/wcweb/handouts/polisci.html) [Management and Business](http://www.google.com.my/aclk?sa=l&ai=CCKIkCqb8S-GgBcGBrQfyidVj9uu2T5zv0csS1ImOmwIIABABUNCn_uj7_____wFgy9P_hIwXoAHQw-30A8gBAaoEFk_Q5nxCXm47k92xQ3vTb7VQCXrR5pg&sig=AGiWqtzFSFyXY60wU6Xw4BZSo93N1g4_eA&adurl=http://www.biztree.com%3Fcm_source%3Dgo-sw%26cm_adgroup%3DC002%26cm_kw%3Dmanagement%2520and%2520business) Geography *(Sains Politik) (Pengurusan dan Perniagaan) (Geografi)*    Economic Human Ecology Communication  *(Ekonomi) (Ekologi Manusia) (Komunikasi)* **F. Arts and Applied Arts** (*Sastera dan Sastera Ikhtisas)* LanguageandLinguistic Literature Religion*(Bahasa dan Linguistik) (Kesusasteraan) (Agama)*   Philosophy Civilization History  *(Falsafah) (Tamadun) (Sejarah*)  Art Culture Education *(Seni) (Budaya) (Pendidikan)*  Principle and Law Built Environment Environment *(Dasar dan Undang-undang) (Alam Bina- (Alam Sekitar-* *Aspek Kemanusiaan) Aspek Kemanusiaan)*  **G. Natural Sciences and National Heritage** (*Sains Tabii dan Warisan Negara)*   Environment Forestry Argiculture *(Alam Sekitar) (Perhutanan) (Pertanian)*  Marine Archaeology Geology *(Marin) (Arkeologi) (Geologi)*  Ethnography Built Environment Culture *(Etnografi)* (Heritage Aspect*) (Budaya)* *Alam Bina (Aspek Warisan)*  Various Biology *(Kepelbagaian Biologi)*  |
| **C(ii)** |  **Location of Research:***Tempat penyelidikan dijalankan:*(Contoh / Example ) : Animal Experimental Unit, Animal Laboratory Center, Faculty of Medicine, University Malaya, 50603 Lembah Pantai, Kuala Lumpur |
| **C(iii)** | **Duration of this research (Maximum 36 months):** *Tempoh masa penyelidikan ini (Maksimum 36 bulan):* **Duration: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  *Tempoh* : **From : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** *Dari* :  **To : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  *Hingga* : |
| **C(iv)** | **Other Researchers:***Ahli-ahli penyelidik yang lain:**(Please include your curriculum vitae if necessary)* |
| **Bil** | **Name***Nama* | **IC / Passport Number:***No. Kad Pengenalan/ Pasport:* | **Faculty/ School/ Centre/ Unit***Fakulti/**P.Pengajian/**Pusat/Unit* | **Academic Qualification/****Designation***Tahap Kelayakan Akademik/Jawatan* | **Signature**  *Tandatangan* |
| 1 |  |  |  |  |  |
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| **C(v)** | **Research projects that have been completed or ongoing by researchers for the last three years. Please provide title of research, duration, year commence and year ending.** *Sila sediakan maklumat termasuk termasuk tajuk, tempoh, tahun mula dan tahun tamat bagi penyelidikan yang sedang/telah dijalankan oleh penyelidik-penyelidik di dalam tempoh tiga tahun terakhir.*  |
| **Title of Research***Tajuk penyelidikan* | **Grant’s Name***Nama Geran* | **Position / Role***Jawatan / Peranan* | **Duration***Tempoh* | **Start Date**  *Tarikh mula* | **End Date***Tarikh tamat* |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| **C(vi)** | **Please furnish information on academic publications that has been published by the researchers for the last five (5) years. (Example: Journals, Books, Chapters in books, etc)***Sila kemukakan maklumat berkaitan penerbitan akademik yang telah diterbitkan oleh penyelidik dalam tempoh lima (5) tahun terakhir. (Contoh: Jurnal, buku, bab dalam buku, dll)* |
| **Title of publication***Tajuk penerbitan* | **Name of journals/books***Nama jurnal/buku* | **Year published***Tahun diterbitkan* |
|  | *Contoh:Malaysian Law Journal* |  |
|  |  |  |
| **C(vii)** | **Executive Summary of Research Proposal (maximum 300 words)** **(Please include the background of research, literature reviews, objectives, research methodology and expected outcomes from the research project)***Ringkasan Cadangan Eksekutif Penyelidikan (maksima 300 patah perkataan)**(Meliputi latar belakang penyelidikan, kajian literatur, kaedah penyelidikan, objektif dan jangkaan hasil penyelidikan)* |
| **C(viii)** | **Detailed proposal of research project:***Cadangan maklumat penyelidikan secara terperinci:***(a) Research background including Hypothesis /Research Questions and Literature Reviews**. *Keterangan latar belakang penyelidikan termasuk kenyataan hipotesis / persoalan penyelidikan dan kajian literatur*.**(b) Objective (s) of the Research** *Objektif Penyelidikan* **Example** /*Contoh:*  ***This study embarks on the following objectives:**** 1. *To investigate ......*

 *2) To assess..........*  *3) To investigate ......*1. *To make recommendation based on ......................*

**(c)Methodology** *Kaedah penyelidikan***Please state in the form** / *Sila nyatakan di borang ini*1. ***Description of Methodology***
2. ***Flow Chart of Research Activities ( Please enclose in the Appendix)***
3. ***Gantt Chart of Research Activities (Please enclose in the Appendix)***
4. ***Milestones and Dates***

**(d) Expected Results/Benefit** *Jangkaan Hasil Penyelidikan*1. ***Novel theories/New findings/Knowledge***
2. ***Research Publications***
3. ***Specific or Potential Applications***
4. ***Number of PhD and Masters (by research) Students***
 |
| **D** | **ACCESS TO EQUIPMENT AND MATERIAL /** *KEMUDAHAN SEDIA ADA UNTUK KEGUNAAN BAGI PENYELIDIKAN INI* |
|  | **Equipment** *Peralatan* | **Location***Tempat* |
| **Example */*** *Contoh****:******HRTEM*****XRD** | **UiTM****UKM** |
| **E** | **BUDGET***/BELANJAWAN* |
|  | **Please indicate your estimated budget for this research and details of expenditure according to the guidelines attached.***Sila nyatakan anggaran bajet bagi cadangan penyelidikan ini dan berikan butir – butir perbelanjaan lengkap dengan berpandukan kepada garis panduan yang dilampirkan.* |
| **Budget details***Butiran belanjawan* | **Amount requested by applicant**  *Jumlah yang dipohon**oleh pemohon* | **Amount approved by VC/Dep.VC** **(R&D)/Director of RMC***Jumlah yang diluluskan oleh Naib Canselor/ TNC (P&I)/Pengarah RMC* |
| **Year 1**Tahun 1 (RM) | **Year 2**Tahun 2(RM) | **Year 3**Tahun 3(RM) | **Total**Jumlah (RM) |
| **E(i)** | **Vote 11000 -** **Salary and** **wages***Upah dan Elaun* Untuk Pembantu Penyelidik Siswazah (GRA)Please specify*Sila nyatakan secara lengkap dengan pecahannya sekali.* |  |  |  |  | **Please Indicate the overall Budget***Sila nyatakan bajet secara keseluruhan* |
| **E(ii)** | **Vote 21000 -** **Travelling and Transportation/***Perjalanan dan Pengangkutan**.*Please specify*Sila nyatakan secara lengkap dengan pecahannya sekali.* |  |  |  |  |  |
|  | **Budget details***Butiran belanjawan*  | **Amount requested by applicant**  *Jumlah yang dipohon**oleh pemohon* | **Amount approved by VC/Dep.VC** **(R&D)/Director of RMC***Jumlah yang diluluskan oleh Naib Canselor/ TNC (P&I)/Pengarah RMC* |
| **Year 1**Tahun 1 (RM) | **Year 2**Tahun 2 (RM) | **Year 3**Tahun 3(RM) | **Total**Jumlah (RM) |
| **E(iii)** | **Vote 24000 -** **Rental***Sewaan*Please specify*Sila nyatakan secara lengkap dengan pecahannya sekali.* |  |  |  |  | **Please Indicate the overall Budget***Sila nyatakan bajet secara keseluruhan* |
| **E(iv)** | **Vote 27000 -** **Research Materials & Supplies** *Bekalan dan Bahan Penyelidikan*Please specify*Sila nyatakan secara lengkap dengan pecahannya sekali.* |  |  |  |  |  |
| **E(v)** | **Vote 28000 -** **Maintenance and Minor Repair Services***Baik pulih kecil dan ubahsuai*Please specify*Sila nyatakan secara lengkap dengan pecahannya sekali.* |  |  |  |  |  |
|  | **Budget details***Butiran belanjawan* | **Amount requested by applicant**  *Jumlah yang dipohon**oleh pemohon* | **Amount approved by VC/Dep.VC** **(R&D)/Director of RMC***Jumlah yang diluluskan oleh Naib Canselor/ TNC (P&I)/Pengarah RMC* |
| **Year 1**Tahun 1 (RM) | **Year 2**Tahun 2(RM) | **Year 3**Tahun 3(RM) | **Total**Jumlah (RM) |
| **E(vi)** | **Vote 29000 -** **Professional Services** *Perkhidmatan Ikhtisas*Please specify*Sila nyatakan secara lengkap dengan pecahannya sekali.* |  |  |  |  | **Please Indicate the overall Budget***Sila nyatakan bajet secara keseluruhan* |
| **E(vii)** | **Vote 35000 -** **Accessories and Equipment***Aksesori dan Peralatan*Please specify*Sila nyatakan secara lengkap dengan pecahannya sekali.* |  |  |  |  |  |
| **TOTAL AMOUNT** *JUMLAH BESAR*  |  |  |  |  |  |
| **F** | **Declaration by applicant /** *Akuan Pemohon***(Please tick *( √ )*):****/** *(Sila tanda ( √ )):* |
|  | **I hereby confess that:***Saya dengan ini mengaku bahawa:* 1. **All information stated here are accurate, KPT and IPT has right to reject or to cancel the offer without prior notice if there is any inaccurate information given.**

*Semua maklumat yang diisi adalah benar, KPT dan IPT berhak menolak permohonan atau membatalkan tawaran pada bila-bila masa sekiranya keterangan yang dikemukakan adalah tidak benar.*1. **Application of this fundamental research is presented for the Fundemental Research Grant Scheme (FRGS).**

*Permohonan**projek penyelidikan ini dikemukakan untuk memohon peruntukan di bawah Geran Penyelidikan Fundamental IPT.*1. **Application of this fundamental research is also presented for the other reasearch grant/s (grant’s name and total amount)**

*Permohonan**projek penyelidikan ini juga dikemukakan untuk memohon peruntukan geran penyelidikan dari (nama geran dan jumlah dana)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***Date : Applicant’s Signature :***Tarikh : Tandatangan Pemohon : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* |
| **G** | **Recommended by Vice Chancellor/Deputy Vice Chancellor (Research and Innovation)/Director of Research Management Center***Perakuan Naib Canselor/Timbalan Naib Canselor(P & I)/Pengarah Pusat Pengurusan Penyelidikan* |
|  | **Please tick ( √ )** *Sila tandakan ( √ )* **Recommended:***Diperakukan:* ***A.* Highly Recommended** *Sangat Disokong***B. Recommended**  *Disokong* **C. Not Recommended (Please specify reason)**  *Tidak Disokong (Sila Nyatakan Sebab)* **Comments:***Ulasan:*----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------**Name: Signature:***Nama: Tandatangan:*  **Date:***Tarikh:* |

**Note: APPLICATIONS SUBMITTED WILL BE TREATED IN FULL CONFIDENCE. THE DECISION OF THE FUNDAMENTAL RESEARCH GRANT SCHEME MAIN COMMITTEE MOHE IS FINAL.**

Semua permohonan dianggap sulit. Keputusan Jawatankuasa Induk Skim Geran Penyelidikan Fundamental KPT adalah **MUKTAMAD.**